

Curriculum Vitæ

Frank Petriello

Personal Data

Family Name: Petriello
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Office address: 2145 Sheridan Road
Department of Physics and Astronomy
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Education

1999-2003 Ph.D. in Physics at Stanford University
Thesis: *Topics in Collider Physics*
Adviser: *Prof. JoAnne Hewett*
1995-1999 B.S. in Physics; B.A. in Mathematics at the University of Florida

Positions Held

2010-present Associate professor, Northwestern University
2010-present Physicist, Argonne National Laboratory
2009-2010 Associate professor, University of Wisconsin at Madison
January-May 2010 Visiting scientist, Argonne National Laboratory
2005-2009 Assistant professor, University of Wisconsin at Madison
January-May 2006 Visiting Scientist, Fermi National Accelerator Center
2003-2005 Postdoctoral researcher, Johns Hopkins University

Awards

2007-2010 U.S. Department of Energy Outstanding Junior Investigator award
2006-2009 Alfred P. Sloan Foundation research fellowship

2006-2009 Wisconsin Alumni Research Foundation research awards

Professional Activities

Feb. 2010-current	Joint ATLAS-CMS-Theory working group on Higgs cross sections, theory convenor for gluon-fusion mode
May 12-14, 2011	Organizer, <i>LoopFest X: Radiative corrections for the LHC and future linear colliders</i> , Evanston, IL, USA
August 10-12, 2010	Reviewer on DOE Intensity Frontier panel, Washington, DC
June 21-July 9, 2010	Organizer, <i>Perturbative higher-order effects at work at the LHC</i> , CERN Theory Institute, CERN
May 23-June 20, 2010	Organizer, <i>Forefront QCD and LHC Discoveries</i> , Aspen Center for Physics summer workshop, Aspen, CO, USA
Sep. 29-Oct. 3, 2009	Convenor, Jet and Photon Energy Measurements working group, <i>2009 Linear Collider Workshop of the Americas</i> , Albuquerque, NM, USA
June 24-July 2, 2009	Organizer, <i>CTEQ Summer School on QCD Analysis and Phenomenology</i> , Madison, WI, USA
May 7-9, 2009	Organizer, <i>LoopFest VIII: Radiative corrections for the LHC and the ILC</i> , Madison, WI, USA
January 7-9, 2009	Organizer, <i>Workshop on Higgs Boson Phenomenology</i> , ETH and University of Zürich, Switzerland
October 22-26, 2007	Convenor, Jet and Photon Energy Measurements working group, <i>2007 American Linear Collider Physics Workshop</i> , Fermilab, USA
May 30-June 7, 2007	Organizer, <i>CTEQ Summer School on QCD Analysis and Phenomenology</i> , Madison, WI, USA
Oct. 29-Nov. 3, 2006	Convenor, QCD parallel session, <i>Joint Meeting Of Pacific Region Particle Physics Communities</i> , Honolulu, HI, USA
July 19-22, 2006	Program committee, <i>Vancouver Linear Collider Workshop</i> , Vancouver, BC, Canada
July 19-22, 2006	Convenor, Top/QCD working group, <i>Vancouver Linear Collider Workshop</i> , Vancouver, BC, Canada
March 9-13, 2006	Convenor, Top/QCD working group, <i>Linear Collider Workshop (LCWS06)</i> , Bangalore, India
August 14-27, 2005	Convenor, Top/QCD physics working group, <i>2005 International Linear Collider physics and detector workshop</i> , Snowmass, CO, USA
Proposal Reviewer for	Department of Energy; National Science Foundation, USA; Natural Sciences and Engineering Research Council of Canada; Georgian National Science Foundation
Referee for	Physical Review Letters, Physical Review D , Physics Letters B , Journal of High Energy Physics, Computer Communications in Physics, Journal of Physics G , and International Journal of Modern Physics A

Supervision of Students

2006-2009 *Seth Quackenbush*, Ph.D. in Spring 2009: currently a postdoctoral researcher at Argonne National Laboratory.

2006-2007	<i>Melanie Ganz</i> , co-supervised with Ulrich Nierste at Universität Karlsruhe, Diploma thesis: currently in graduate school in medical physics at the University of Copenhagen.
Current students	Ryan Gavin, Ye Li

Supervision of Postdoctoral Researchers

2006-2008	<i>Kathryn Zurek</i> : currently an assistant faculty member at the University of Michigan.
2006-2009	<i>Thomas McElmurry</i> : currently a postdoctoral researcher at Brookhaven National Laboratory.
Current postdocs	Sonny Mantry

Teaching Experience

Fall 2010	Methods of Theoretical Physics: Physics 411, Northwestern University
Fall 2009	Quantum Field Theory I: Physics 831, University of Wisconsin
Spring 2009	Classical Mechanics: Physics 311, University of Wisconsin
Fall 2008	Classical Mechanics: Physics 311, University of Wisconsin
Spring 2008	Wave Motion and Optics: Physics 325, University of Wisconsin
Fall 2007	Theoretical Physics, Dynamics: Physics 711, University of Wisconsin
Spring 2007	Classical Mechanics: Physics 311, University of Wisconsin
Fall 2006	Classical Mechanics: Physics 311, University of Wisconsin

Invited Talks & Seminars

Invited and Plenary Talks

May 5, 2011	Invited talk, Higgs Cross Sections for the LHC <i>The gluon-fusion cross section with a jet veto</i>
February 11, 2011	Invited talk, Workshop on Precision Measurements of α_S <i>α_S at the LHC</i>
July 5, 2010	Invited talk, 2nd LHC Higgs Cross Section Workshop, CERN <i>Standard Model predictions for gluon-fusion Higgs production</i>
June 25, 2010	Plenary talk, The Physics of W and Z Bosons, Brookhaven National Laboratory <i>The status of NNLO tools for W and Z production at hadron colliders</i>
June 22, 2010	Plenary talk, LoopFest IX: Radiative Corrections for the LHC and Lepton Colliders <i>Resummation of low p_T differential distributions in soft-collinear effective theory</i>
May 17, 2010	Invited talk, Joint CDF/DO/Theory meeting on Higgs systematics, Fermilab <i>Theory systematics for gluon-fusion Higgs production</i>
April 26, 2010	Plenary talk, 10th DESY Workshop On Elementary Particle Theory: Loops And Legs In Quantum Field Theory 2010, Wörlitz, Germany <i>Higgs boson production in proton-proton collisions</i>

April 9, 2010	Invited talk, Emerging Problems in Particle Physics Phenomenology, Initiative for Theoretical Sciences, City University of New York <i>Gluon-fusion Higgs production in the Standard Model and beyond</i>
February 14, 2010	Invited talk, APS April Meeting 2010, Washington, DC <i>Recent Results in Perturbative QCD</i>
October 30, 2009	Invited talk, Perimeter Institute ATLAS-LHC day, Waterloo, Canada <i>Determining Z' couplings using LHC data and low energy measurements</i>
October 29, 2009	Invited talk, LHC Theory Initiative Fellows Meeting, Fermilab <i>Higher-order corrections and BSM physics</i>
May 29, 2009	Invited talk, CIPANP 2009: Tenth Conference on the Intersections of Particle and Nuclear Physics, San Diego, CA, USA <i>Z' bosons from low to high energies</i>
May 20, 2009	Invited talk, Collider Physics 2009: Joint Argonne & IIT Theory Institute, Argonne National Laboratory, USA <i>Recent progress on QCD and electroweak corrections to Higgs production</i>
April 27, 2009	Plenary talk, Workshop on Physics at the LHC: the 1st Year, TRIUMF National Laboratory, Canada <i>Precision Higgs physics</i>
November 7, 2008	Plenary talk, Brookhaven Forum 2008, Terra Incognita: From LHC to Cosmology. Brookhaven National Laboratory, USA <i>Getting ready for the LHC: a QCD status report</i>
September 20, 2008	Invited talk, Collider Physics Symposium: Preparing for the LHC, Institute for Nuclear Theory, Seattle, WA, USA <i>Z' bosons from $Q^2 = 0$ to the LHC</i>
September 2, 2008	Plenary talk, Quark Confinement and the Hadron Spectrum, Johannes Gutenberg University of Mainz, Germany <i>QCD at the LHC</i>
June 18, 2008	Invited talk, CDF collaboration meeting, Fermilab, USA <i>QCD effects in Higgs physics at the Tevatron and the LHC</i>
June 5, 2008	Plenary talk, Anticipating Physics at the LHC, Kavli Institute for Theoretical Physics, Santa Barbara, CA, USA <i>Z' bosons and light hidden sectors at the LHC</i>
April 17, 2007	Plenary talk, LoopFest VI: Radiative Corrections for the LHC and ILC, Fermilab, USA <i>Electroweak gauge bosons through NNLO</i>
April 14, 2007	Invited talk, American Physical Society April Meeting 2007, Jacksonville, FL, USA <i>Advances in perturbative QCD for LHC physics</i>
January 11, 2007	Plenary talk, 2007 Winter Conference On Particle Physics: New Physics At The Electroweak Scale And New Signals At Hadron Colliders, Aspen, CO, USA <i>Recent progress in QCD theory</i>
May 22, 2006	Plenary talk, Symposium On Hadron Collider Physics 2006 (HCP 2006), Durham, NC, USA <i>Theoretical perspectives in QCD</i>
March 20, 2006	Invited talk, 41st Rencontres De Moriond: QCD And Hadronic Interactions, La Thuile, Italy <i>Numerical methods for differential distributions at higher orders in QCD</i>

August 18, 2005	Plenary talk, LoopFest IV: Radiative Corrections for the International Linear Collider, Snowmass, CO, USA <i>Fully differential Higgs boson production and the di-photon signal through NNLO</i>
March 14, 2005	Invited talk, Enrico Fermi Institute mini-symposium: Physics challenges at the LHC, University of Chicago, IL, USA <i>LHC physics and QCD beyond the leading order</i>
February 14, 2005	Plenary talk, 2005 Aspen Winter Conference: The Highest Energy Physics, Aspen, CO, USA <i>High precision QCD at hadron colliders: new techniques and results for perturbative calculations</i>
April 1, 2004	Plenary talk, LoopFest III: Radiative Corrections for the Linear Collider: Multi-loops and Multi-legs, Kavli Institute for Theoretical Physics, Santa Barbara, CA, USA <i>High precision QCD at hadron colliders: electroweak gauge boson rapidity distributions at NNLO</i>
May 15, 2003	Plenary talk, LoopFest II: Precision Measurements and Radiative Corrections at a Future Linear Collider: SUSY, QCD, New Physics, Brookhaven National Laboratory, USA <i>Drell-Yan rapidity distribution at NNLO in QCD</i>

Colloquia

March 18, 2010	University at Buffalo physics department colloquium, Buffalo, NY <i>The Hunt for the Higgs Boson</i>
January 27, 2010	Argonne National Laboratory high energy physics division seminar <i>The Hunt for the Higgs Boson</i>
January 18, 2010	Department of physics and astronomy colloquium, Northwestern University <i>The Hunt for the Higgs Boson</i>
April 9, 2009	Physics department colloquium, Florida State University, Tallahassee, FL <i>The Hunt for the Higgs Boson</i>
December 4, 2008	Lawrence Berkeley National Laboratory Research Progress Meeting <i>QCD predictions for LHC processes</i>
February 28, 2006	Physics Department colloquium, Carleton University, Ottawa, Canada <i>Precision physics at the LHC</i>
May 26, 2004	Argonne National Laboratory high energy physics division seminar <i>High precision QCD at hadron colliders: new techniques and results for perturbative calculations</i>

Summer School Lectures

August 1-7, 2010	Paul Scherrer Institute Summer School on Particle Physics: Gearing up for LHC Physics, Zuz, Switzerland Two lectures on <i>Techniques for perturbative QCD</i>
August 7, 2009	2009 SLAC Summer Institute: Revolutions on the Horizon, Stanford Linear Accelerator Center, CA One lecture on <i>Perturbative QCD</i>

- June 29-July 3, 2009 IV Torino School in Physics at Colliders, Torino, Italy
Six lectures on *Higgs physics*
- June 24-25, 2009 2009 CTEQ Summer School, Madison, WI
Two lectures on *Higgs and Electroweak Gauge Bosons*

Seminars

- May 6, 2011 BNL nuclear theory seminar
Transverse momentum distributions from effective field theory
- April 11, 2011 Joint Johns Hopkins-University of Maryland particle theory seminar
Theoretical issues in Higgs searches
- December 1, 2010 University of Chicago particle theory seminar
Transverse momentum distributions from effective field theory
- October 29, 2010 University of Michigan high energy theory seminar
Transverse momentum distributions from effective field theory
- July 12, 2010 Virtual Theory Institute seminar, University of Heidelberg
Factorization and resummation of low p_T differential distributions in SCET
- April 15, 2010 Fermilab high energy theory seminar
Factorization and resummation of low p_T differential distributions
- February 8, 2010 University of Indiana high energy physics seminar
Precision Higgs physics at hadron colliders
- January 29, 2010 SLAC high energy theory seminar
Precision Higgs physics at colliders
- November 10, 2009 University of Zurich particle physics seminar
How to analyze a Z' discovery using the LHC and low energy data
- October 20, 2009 Rutgers University high energy theory seminar
Precision Higgs physics at colliders
- April 10, 2009 Florida State University high energy physics seminar
Electroweak effects in Higgs physics
- March 19, 2009 Fermilab high energy theory seminar
Electroweak effects in Higgs physics
- February 17, 2009 Yale University particle theory seminar
Electroweak effects in Higgs production
- February 5, 2009 University of Minnesota particle theory seminar
Electroweak effects in Higgs production
- January 27, 2009 Argonne National Laboratory high energy theory seminar
Electroweak effects in Higgs production
- August 29, 2008 University of Zürich particle and astrophysics seminar
DAMA and WIMP dark matter
- March 20, 2008 Princeton University high energy theory seminar
Probing Z' properties at the LHC
- December 6, 2007 Florida State University high energy physics seminar
New techniques for NLO QCD and top quark physics at the LHC

October 29, 2007	University of Illinois at Urbana-Champaign HETEP seminar <i>New techniques for NLO QCD and top quark physics at the LHC</i>
October 17, 2007	Brookhaven National Laboratory HET/RIKEN seminar <i>New techniques for NLO QCD and top quark physics at the LHC</i>
May 21, 2007	Johns Hopkins high energy theory seminar <i>Uncovering the New Standard Model at the LHC</i>
May 1, 2007	University of Washington high energy theory seminar <i>QCD at the LHC</i>
April 3, 2007	Rutgers University high energy theory seminar <i>Recent progress in perturbative QCD and LHC physics</i>
February 5, 2007	Northwestern University high energy physics seminar <i>Electroweak gauge boson production at hadron colliders</i>
May 11, 2006	Fermilab high energy theory seminar <i>Getting ready for the LHC: QCD at next-to-leading order and beyond</i>
April 4, 2006	Michigan State University high energy physics seminar <i>High precision QCD at hadron colliders</i>
February 21, 2006	Harvard University phenomenology seminar <i>LHC physics and QCD beyond the leading order</i>
February 16, 2006	SLAC high energy theory seminar <i>Numerical methods for perturbative calculations</i>
February 13, 2006	University of California at Berkeley high energy theory seminar <i>LHC physics and QCD beyond the leading order</i>
January 24, 2006	University of California at Berkeley high energy theory seminar <i>High precision QCD at hadron colliders</i>
November 22, 2005	University of Florida high energy physics seminar <i>High precision QCD at hadron colliders</i>
September 28, 2005	Carnegie Mellon University high energy physics seminar <i>LHC physics and QCD beyond the leading order</i>
April 19, 2005	Institute for Advanced Study, Princeton phenomenology seminar <i>High precision QCD at hadron colliders</i>
March 23, 2005	Brookhaven National Laboratory high energy theory seminar <i>High precision QCD at hadron colliders: new techniques and results for perturbative calculations</i>
March 9, 2005	University of California, Irvine joint particle physics seminar <i>High precision QCD at hadron colliders: new techniques and results for perturbative calculations</i>
March 4, 2005	University of Maryland elementary particle theory seminar <i>High precision QCD at hadron colliders: new techniques and results for perturbative calculations</i>
February 24, 2005	University of Wisconsin phenomenology seminar <i>Challenges in precision collider physics</i>
February 21, 2005	Argonne National Laboratory high energy theory seminar <i>Differential distributions in QCD at next-to-next-to-leading order</i>

January 21, 2005	MIT Center for Theoretical Physics seminar <i>High precision QCD at hadron colliders: new techniques and results for perturbative calculations</i>
November 12, 2004	University of Wisconsin phenomenology seminar <i>High precision QCD at hadron colliders</i>
October 6, 2004	Cornell University high energy theory seminar <i>High precision QCD at hadron colliders</i>
June 9, 2004	Brookhaven National Laboratory high energy theory seminar <i>Differential distributions in QCD at next-to-next-to-leading order</i>
January 20, 2004	Johns Hopkins University high energy theory seminar <i>Challenges in precision collider physics</i>
July 17, 2003	Fermilab high energy theory seminar <i>Differential distributions at higher orders in QCD</i>
June 13, 2003	SLAC high energy theory seminar <i>Drell-Yan rapidity distribution at NNLO in QCD</i>
January 24, 2003	SLAC high energy theory seminar <i>Constraining the Littlest Higgs</i>
December 17, 2002	University of Florida high energy theory seminar <i>Constraining the Littlest Higgs</i>

Scientific interests

New techniques for perturbative calculations in quantum field theory
 Phenomenology of Higgs and electroweak gauge bosons
 Phenomenology of physics beyond the Standard Model
 Application of effective field theory techniques to LHC physics

Publications

1. LHC Higgs Cross Section Working Group *et al.*, *Handbook of LHC Higgs Cross Sections: 1. Inclusive Observables*,; editor, gluon-fusion chapter; arXiv:1101.0593 [hep-ph].
2. S. Mantry, **F. Petriello**, *Transverse Momentum Distributions in the Non-Perturbative Region*, [arXiv:1011.0757 [hep-ph]].
3. R. Gavin, Y. Li, **F. Petriello** and S. Quackenbush, *FEWZ 2.0: A code for hadronic Z production at next-to-next-to-leading order*, [arXiv:1011.3540 [hep-ph]].
4. S. Mantry and **F. Petriello**, *Transverse Momentum Distributions from Effective Field Theory with Numerical Results*, arXiv:1007.3773.
5. R. Boughezal and **F. Petriello**, *Color-octet scalar effects on Higgs boson production in gluon fusion*, Phys. Rev. D **81**, 114033 (2010).
6. S. Mantry, **F. Petriello**, *Factorization and Resummation of Higgs Boson Differential Distributions in Soft-Collinear Effective Theory*, Phys. Rev. D **81**, 093007 (2010).

7. Y. Li, **F. Petriello** and S. Quackenbush, *Reconstructing a Z' Lagrangian using the LHC and low-energy data*, Phys. Rev. D **80**, 055018 (2009).
8. W.-Y. Keung and **F. Petriello**, *Electroweak and finite quark-mass effects on the Higgs boson transverse momentum distribution*, Phys. Rev. D **80**, 013007 (2009).
9. C. Anastasiou, R. Boughezal and **F. Petriello**, *Mixed QCD-electroweak corrections to Higgs boson production in gluon fusion*, JHEP **0904**, 003 (2009).
10. D. Hooper, **F. Petriello**, K. M. Zurek and M. Kamionkowski, *The New DAMA Dark-Matter Window and Energetic-Neutrino Searches*, Phys. Rev. D **79**, 015010 (2009).
11. P. Fileviez Pérez, R. Gavin, T. McElmurry and **F. Petriello**, *Grand Unification and Light Color-Octet Scalars at the LHC*, Phys. Rev. D **78**, 115017 (2008).
12. Y. Gershtein, **F. Petriello**, S. Quackenbush and K. M. Zurek, *Discovering hidden sectors with mono-photon Z' searches*, Phys. Rev. D **78**, 095002 (2008).
13. **F. Petriello** and K. M. Zurek, *DAMA and WIMP dark matter*, JHEP **0809**, 047 (2008).
14. A. Lazopoulos, T. McElmurry, K. Melnikov and **F. Petriello**, *Next-to-leading order QCD corrections to $t\bar{t}Z$ production at the LHC*, Phys. Lett. B **666**, 62 (2008).
15. **F. Petriello**, S. Quackenbush and K. M. Zurek, *The Invisible Z' at the LHC*, Phys. Rev. D **77**, 115020 (2008).
16. **F. Petriello** and S. Quackenbush, *Measuring Z' couplings at the LHC*, Phys. Rev. D **77**, 115004 (2008).
17. A. Lazopoulos, K. Melnikov and **F. Petriello**, *NLO QCD corrections to the production of $t\bar{t}Z$ in gluon fusion*, Phys. Rev. D **77**, 034021 (2008).
18. A. Lazopoulos, K. Melnikov and **F. Petriello**, *QCD corrections to tri-boson production*, Phys. Rev. D **76**, 014001 (2007).
19. C. Anastasiou, K. Melnikov and **F. Petriello**, *The electron energy spectrum in muon decay through $\mathcal{O}(\alpha^2)$* , JHEP **0709**, 014 (2007).
20. K. Melnikov and **F. Petriello**, *Electroweak gauge boson production at hadron colliders through $\mathcal{O}(\alpha_s^2)$* , Phys. Rev. D **74**, 114017 (2006).
21. S. Alekhin, K. Melnikov and **F. Petriello**, *Fixed target Drell-Yan data and NNLO QCD fits of parton distribution functions*, Phys. Rev. D **74**, 054033 (2006).
22. K. Agashe, A. E. Blechman and **F. Petriello**, *Probing the Randall-Sundrum geometric origin of flavor with lepton flavor violation*, Phys. Rev. D **74**, 053011 (2006).
23. G. Davatz, F. Stockli, C. Anastasiou, G. Dissertori, M. Dittmar, K. Melnikov and **F. Petriello**, *Combining Monte Carlo generators with next-to-next-to-leading order calculations: Event reweighting for Higgs boson production at the LHC*, JHEP **0607**, 037 (2006).
24. K. Melnikov and **F. Petriello**, *The W boson production cross section at the LHC through $\mathcal{O}(\alpha_s^2)$* , Phys. Rev. Lett. **96**, 231803 (2006).
25. C. Anastasiou, K. Melnikov and **F. Petriello**, *The gluon-fusion uncertainty in Higgs coupling extractions*, Phys. Rev. D **72**, 097302 (2005).
26. C. Anastasiou, K. Melnikov and **F. Petriello**, *Fully differential Higgs boson production and the di-photon signal through next-to-next-to-leading order*, Nucl. Phys. B **724**, 197 (2005).

27. C. Anastasiou, K. Melnikov and **F. Petriello**, *Higgs boson production at hadron colliders: Differential cross sections through next-to-next-to-leading order*, Phys. Rev. Lett. **93**, 262002 (2004).
28. C. Anastasiou, K. Melnikov and **F. Petriello**, *Real radiation at NNLO: $e^+ e^- \rightarrow 2$ jets through $\mathcal{O}(\alpha_s^2)$* , Phys. Rev. Lett. **93**, 032002 (2004).
29. C. Anastasiou, L. Dixon, K. Melnikov and **F. Petriello**, *High-precision QCD at hadron colliders: Electroweak gauge boson rapidity distributions at NNLO*, Phys. Rev. D **69**, 094008 (2004).
30. C. Anastasiou, K. Melnikov and **F. Petriello**, *A new method for real radiation at NNLO*, Phys. Rev. D **69**, 076010 (2004).
31. C. Anastasiou, L. Dixon, K. Melnikov and **F. Petriello**, *Dilepton rapidity distribution in the Drell-Yan process at NNLO in QCD*, Phys. Rev. Lett. **91**, 182002 (2003).
32. J. L. Hewett, **F. Petriello** and T. G. Rizzo, *Constraining the Littlest Higgs*, JHEP **0310**, 062 (2003).
33. **F. Petriello**, *Radiative corrections to fixed target Moeller scattering including hard bremsstrahlung effects*, Phys. Rev. D **67**, 033006 (2003).
34. **F. Petriello**, *Kaluza-Klein effects on Higgs physics in universal extra dimensions*, JHEP **0205**, 003 (2002).
35. J. L. Hewett, **F. Petriello** and T. G. Rizzo, *Precision measurements and fermion geography in the Randall-Sundrum model revisited*, JHEP **0209**, 030 (2002).
36. J. L. Hewett, **F. Petriello** and T. G. Rizzo, *Non-commutativity and unitarity violation in gauge boson scattering*, Phys. Rev. D **66**, 036001 (2002).
37. J. L. Hewett and **F. Petriello**, *Indirect signatures of CP violation in the processes $\gamma\gamma \rightarrow \gamma\gamma$, γZ , and ZZ* , Phys. Rev. D **64**, 095017 (2001).
38. **F. Petriello**, *The Higgs mechanism in non-commutative gauge theories*, Nucl. Phys. B **601**, 169 (2001).
39. J. L. Hewett, **F. Petriello** and T. G. Rizzo, *Signals for non-commutative interactions at linear colliders*, Phys. Rev. D **64**, 075012 (2001).

Conference Proceedings

1. R. Boughezal, F. Petriello, *Precise predictions for Higgs production in models with color-octet scalars*, in the Proceedings of the 10th DESY Workshop on Elementary Particle Theory: Loops and Legs in Quantum Field Theory, Woerlitz, Germany, April 25-30, 2010
2. A. Juste *et al.*, *Report of the 2005 Snowmass Top/QCD Working Group*, in the Proceedings of the 2005 International Linear Collider Physics And Detector Workshop
3. C. F. Berger, M. Perelstein and F. Petriello, *Top quark properties in little Higgs models*, in the Proceedings of the 2005 International Linear Collider Physics And Detector Workshop
4. S. Heinemeyer *et al.*, *Toward high precision Higgs-boson measurements at the international linear $e^+ e^-$ collider*, in the Proceedings of the 2005 International Linear Collider Physics And Detector Workshop
5. J. L. Hewett and F. Petriello, *Indirect signatures of CP violation in the processes $\gamma\gamma \rightarrow \gamma\gamma$, γZ , and ZZ* , in the Proceedings of the APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001)

6. J. L. Hewett, F. Petriello and T. G. Rizzo, *Signals for noncommutative QED at high energy e^+e^- colliders*, in the Proceedings of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001), ed. R. Davidson and C. Quigg
7. M. M. Velasco *et al.*, *Photon photon and electron photon colliders with energies below a TeV*, in the Proceedings of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001), ed. R. Davidson and C. Quigg